

Program Book

Short Term Internship

AP STATE COUNCIL OF HIGHER EDUCATION
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

**Program Book
for
Short-Term Internship**

Name of the Student: *Maha Sathish*

Name of the College: *CBR Degree college*

Registration Number: *20075820084*

Period of Internship: From: *16/9/22* To: *15/11/22*

Name & Address of the Intern Organization

piloti cybersecurity

Instructions to Students

Please read the detailed Guidelines on Internship hosted on the website of AP State Council of Higher Education <https://pascbe.ap.gov.in>

1. It is mandatory for all the students to complete 2 months (180 hours) of short-term internship either physically or virtually.
2. Every student should identify the organization for internship in consultation with the College Principal/the authorized person nominated by the Principal.
3. Report to the intern organization as per the schedule given by the College. You must make your own arrangements of transportation to reach the organization.
4. You should maintain punctuality in attending the internship. Daily attendance is compulsory.
5. You are expected to learn about the organization, policies, procedures, and processes by interacting with the persons working in the organization and by consulting the supervisor attached to the interns.
6. While you are attending the internship, follow the rules and regulations of the intern organization.
7. While in the intern organization, always wear your College Identity Card.
8. If your College has a prescribed dress as uniform, wear the uniform daily as you attend to your assigned duties.
9. You will be assigned with a Faculty Guide from your College. He/She will be creating a WhatsApp group with your fellow interns. Post your daily activity done and/or any difficulty you encounter during the internship.
10. Identify five or more learning objectives in consultation with your Faculty Guide. These learning objectives can address:
 - Data and Information you are expected to collect about the organization and/or industry.
 - Job Skills you are expected to acquire.
 - Development of professional competencies that lead to future career success.
11. Practice professional communication skills with team members, co-workers and your supervisor. This includes expressing thoughts and ideas effectively through oral, written, and non-verbal communication, and utilizing listening skills.

13. Be aware of the communication culture in your work environment. Follow up and communicate regularly with your supervisor to update regarding the work progress until work assignment.
14. Never be hesitant to ask questions to make sure you fully understand what you need to do your work and to contribute to the organization.
15. Be regular in filling up your Program Book. It shall be filled up by your own handwriting. Add additional space whenever necessary.
16. At the end of internship you shall be evaluated by your supervisor of the intern organization.
17. There shall also be evaluation at the end of the Internship by the Faculty Guide and the Principal.
18. Ensure that you do not cause any disturbance in the regular activities of the Intern organization.
19. Be cordial but not too familiar with the employees of the place, supervisor and your fellow interns.
20. You should understand that during Internship programme, you are the ambassador of your College, and your behavior during the Internship programme is of utmost importance.
21. If you are involved in any discipline related issues, you will be withdrawn from the Internship programme immediately and disciplinary action shall be initiated.
22. Do not forget to keep up your family pride and prestige of your College.

**An Internship Report
On
(Title of the Internship)**

Submitted in accordance with the requirement for the degree of.....

Name of the College: CBR Degree college

Department: B.com computer

Name of the Faculty Guide: S. Anil

Duration of the Internship: From ~~15/07/2022~~ To ~~16/07/2023~~ 2023

Name of the Student: M. Sathish

Programme of Study cyber security

Year of Study: 2022 - 2023

Register Number: 200758200024

Date of Submission: Oct 31

Student's Declaration

I, M. Sathish, a student of Cyber Security Program, Reg. No. 20074821024 of the Department of CBR Degree College do hereby declare that I have completed the mandatory internship from ~~01.07.2020 to 30.11.2020~~ in ~~CBR Degree College~~ (Name of the intern organization) under the Faculty Guideship of (Name of the Faculty Guide), Department of CBR Degree College.... (Name of the College)

(Signature and Date)

M. Sathish

Endorsements

Faculty Guide S. Anil

S. Anil
Head of the Department

Principal PRINCIPAL 22/6/23
CBR DEGREE COLLEGE
PITHAPURAM, KKD DIS
C.CODE - 075
Pithapuram
6/5/23

ACKNOWLEDGEMENTS

The final outcome of this internship requires a lot of guidance and information from the government admins. I extremely thank to have all this long with completion of my internship whatever I have done is only due to the kind information and assistance given by the makers. I have to thank them.

I thank to palolo government virtual internship program for giving me an opportunity to do the internship and provided me an assistance which helped me to complete my internship outcome.

I owe my profound gratitude to Andhra Pradesh State Council for providing this internship programme for free of cost and helped to gain knowledge on the particular internship.

I am thankful to Balaji sir for providing information day to day and clarifying our doubts.

CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have only a one-page executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

This internship report is based on a short term 2months internship program. This internship stress on the knowledge gained on the train of the Palotto network organization as a PCCET-Palotto certified cybersecurity entry level technician intern.

I have successfully learned the main objective of the internship such as

- introduction of the internship cyber security
- fundamental of network security
- fundamental of cloud security
- fundamental of security operation center (SOC)

The outcomes I have achieved through this internship are the ability to identify the cyber threats and to be able to strengthen and protect the privacy of personal data.

The organization provides a specific access portal only to individual intern called as "The Beacon Home".

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

- A. Introduction of the Organization
- B. Vision, Mission and Values of the Organization
- C. Policy of the Organization, in relation with the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization in terms of turnover, profits, market reach and market value.
- G. Future Plans of the Organization.

A) Introduction to organisation: Palo Alto network is an American multinational cybersecurity company in Santa Clara California founded by Mr. Nir Zuk.

It was listed 8th in Forbes' Forbes digital.

B) Mission vision and value: The company intention to provide endpoint security protection. Its mission every year run the pun to in the next generation firewall.

C) Policy related to the intern's role: The organisation policy is to equip many not to internet every year with the basic knowledge to person data protection and create awareness on the cybersecurity.

D. Organisational structure: The organisation Executive include:

founder → Nir Zuk (chief technology officer)

Chairman → Nikesh (Chief executive)

President → BJ Jenkins

A board and management team who name over 3,000 employees

CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

Paloalto cyber security internship engages the interns with regular quizzes and also assessment according to the daily and weekly work schedule

The tasks can be managed in a mobile phone although a PC or a laptop is required

There are functions in the audio quality during the session

Skills acquired during this course so the internship are

- detecting the malware
- Evaluating devious cyber attack techniques
- Identifying has spamming and phising attacks are present
- Explain parameter based you trust security model Etc

Activities and responsibilities held in this internship are in the form of modules and assessment organized according the weekly schedule though classification and budget

ACTIVITY LOG FOR THE FIRST WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
10/10/22 Day - 1 Monday	cyber attack techniques functions and types of botnets	Business mails comparisons (CBFW)	J
11/10/22 Day - 2 Tuesday	Spamming, phishing, Spine whale watering hole Pharming	Spam phishing flexibility and utility.	J
12/10/22 Day - 3 Wednesday	wifi - challenged wireless Secured protocols	wifi Protected access exchange minimal real access point	J
13/10/22 Day - 4	objectives and Polymorphism	Techniques to hide binary strings	J
14/10/22 Day - 5	Executive steps of attacks and cures generalities of various vector attacks	Eviting attacks to jump and to the band wuge	J
15/10/22 Day - 6	Patching vulnerabilities development of patch	Test & Deeply Patch	J

WEEKLY REPORT

WEEK - 1 (From Dt.10.10.22. to Dt.16.10.22....)

Objective of the Activity Done: To understand kind/scape of cybersecurity

Detailed Report:

- learnt how to access the lesson portal to access the modules & domain
- Learn about the classification of the modern computing devices such as the web 2.0 to web 3.0 and the respective technologies and protocols called as layer
- in the landscape of cybersecurity & learn about the cyber lifecycle and the possible cyber attacks and threats
- Learn how to execute the necessary steps on the next generation firewalls to protect the attackers
- learn how to develop patches and to detect the patching vulnerabilities

The primary report consists of the basic introduction to cybersecurity

ACTIVITY LOG FOR THE SECOND WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
17/10/22 Day - 1 Mon	Modern computing trend Introduction web 2.0 & web 3.0 apps tactics & produces	allowing & blocking classification the security services	J
18/10/22 Day - 2 Tue	Cybersecurity Landscape Port hopping & using non stand Ports such as agilio	Tunneling and Encryption	J
19/10/22 Day - 3 Wed	Denial attacks SSC strips strategies and encryption	wAP-1, wAP2 waps limited access through authentication	J
20/10/22 Day - 4 Thu	Secure contact via Encryption participate in known constrained network	Mainframe computer Processing power data centers	J
21/10/22 Day - 5 Fri	internals & extranet distribution	Application control monitor and inspect	J
22/10/22 Day - 6 Sat	Obfuscation and Polymorphism	techniques to hide binary string	J

WEEKLY REPORT

WEEK - 2 (From Dt. 17/10/22 to Dt. 22/10/22)

Objective of the Activity Done: Understand Data Loss Prevention

Detailed Report:

→ got a brief idea on the type of attack or threats such as

→ Spawning

→ Watering hole

→ Pharming

→ Phishing

→ understand the wifi changes wireless security and cyber protocol and also the possible ways to overcome those challenges

→ learn how to secure data and privacy through the end to end encryption method

→ learn about various types of WPA protocols such as

→ WPA1 WPA2 WPA3

In second week consists of the details description of the threats

ACTIVITY LOG FOR THE THIRD WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
24/10/22 Day - 1 Mon	Network security technology legacy firewalls Paket fitting fire walls	operation match inspection	F
25/10/22 Day - 2 Tue	Stand full Paket inspection firewall Application fire wall	Proxy based firewalls networks based firewalls	F
26/10/22 Day - 3 Wed	intrusion detection & Prevention behavior based system	Description & functionality alerts about the potential attack	F
27/10/22 Day - 4 Thu	web content Fitness virtual private network open VPN	Layer 3 tunneling Protocol SSTP/Secure socket tunneling Protocol	F
28/10/22 Day - 5 Fri	(L2TP) Microsoft Point to connection point to point tunneling	Easy setup we cases secure internet Protocol security	F
29/10/22 Day - 6 Sat	secure sockets layer Data loss prevention	Purpose and functionality	F

WEEKLY REPORT

WEEK - 3 (From Dt. 24/12/22 to Dt. 29/12/22...)

Objective of the Activity Done:

Talk about the functional of cybersecurity

Detailed Report:

- introduced to legacy firewall or the network security technology
- Learn how to inspect the operation of the network in a protection of the protocol in a network in a cybersecurity
- understand the distinguished between proxy based firewall and network based firewall
- Learn how to operate virtual private networks and open VPN to access the web content fitness
- Introduction detection system & behavior based system

ACTIVITY LOG FOR THE FOURTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Mon 1/1/22	Unified threat manager in management security function	Combined security function	J
Tue 2/1/22	4 Approaches to detections Sp. response signature based antivirus software	signature base anti-malware Software development	J
Wed 3/1/22	Zero-day attacks and malware variation	Advanced threat detection analysis of the cybersecurity	J
Thu 4/1/22	Application attack listing and Potential difficulties detection heuristic based analysis	Heuristic based based analysis	J
Fri 5/1/22	Golden image and growing security challenges	Network firewalls and host based firewalls	J
Sat 6/1/22	mobile device management and private enforcement	centralised management and security for device	J

WEEKLY REPORT

WEEK - 4 (From Dt 31/10/22 to Dt 5/11/22)

Objective of the Activity Done:

To learn about advance malware and end point protection

Detailed Report:

- Differentiated the false positive from the detection of the response to malware.
- Learned about the mobile device management and policy enforcement.
- Acquired the management of unified threat security function.
- Identified the zero-day attacks and growing security challenges uses elevated

ACTIVITY LOG FOR THE FIFTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
7/11/22 Day - 1 Mon	Server management and system and administration	Server system and administration	J
8/11/22 Day - 2 Tue	Identify and access management vulnerability & patch management	Directed services administration	J
9/11/22 Day - 3 Wed	structured or host & networks troubleshooting	Network work baselines	J
10/11/22 Day - 4 Thu	Network documentation logical troubleshooting using the OSI model	Common through shooting problem	J
11/11/22 Day - 5 Fri	Local hosts individual devices shared services anomalies	More capability Protocol Encryption	J
12/11/22 Day - 6 Sat	Basic operation of enterprise	Common network device	J

WEEKLY REPORT

WEEK - 5 (From Dt.. 7/11/22... to Dt.. 12/11/22...)

Objective of the Activity Done: To understand fundamental of cloud security

Detailed Report:

- Learn about how to troubleshoot the the cloud computing issue
- Network documentation using the models
- understanding the basic operations at the Pass Codes
- Learn about the non capability & the passcodes
- Detection of local hosts and the individual cloud network

In the fifth week the common networking cloud devices were discussed

CHAPTER 5: OUTCOMES DESCRIPTION

Describe the work environment you have experienced for terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)

The work environment in this internship was great and the faculty related to this particular internship had good interaction with the interns about also conducted session to clarify doubts any

Even though I could manage with a handset the requirement of a laptop as PC left necessary The basic job role given to the intern was the PCCET -Paluto certified cybersecurity entry level technicals.

The Internship Process was smooth and also well organize.

Good time management can be seen in all the session and discipline was maintained Team work and unity was also maintained during the internship where the interns mutually supported each other they were-

mostly the out comes from this intern internship were Positive

Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

I acquired multiple real time technical skills in the cybersecurity field such as being able to analyse the logs which in security operations center to recognise the potential mitigate attacks again home networks

Distinguishing different malware types and cyber attack techniques.

Describing the relationship & Phising attack blue exports vulnerabilities

To identify spamming & Phising attack
Acquired the knowledge in Parameter Based zero trust Security models

Reviewing protocols policies open system interconnection models can be encapsulated

Explaining how to Explore End point technology and personal firewall host based and many other management features

Describe the managerial skills you have acquired (in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.

I have organized good workmanship in this internship and tried hard to put my time to the productive use.

organizing skills and planning the daily or weekly activities according to the internship schedule. though me some discipline in my work space

During this internship I developed good decision making skill and competitive behaviour grown and improve my performance.

Setting targets regularly and good helped me to go forward with a vision

During the handsome exposure on the Experimentation and activities and the hybridized I was also able to develop team work and leadership skills

Active participation in the daily target boosted my confidence to face and handle the critical situations

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.,)

In this internship I acquired the four primary required skilled in communicate such as listening speaking reading and writing

my verbal communication improvement has helped me get over the fight to speak which addressing a certain communication ability were improved by communication with certain during the term work activities

The core correction in my communication during this internship was learning to listen rather than speak which helped me improve my understanding and grasping level

Ability to use the right activities in between the sentence to make the place appropriate grammatically

I highly appreciate and the intern faculty who help me developed good communication skills and made the language

Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

In this internship my ability enhanced in different aspects such as

- processing the information
- activities participation in firm work activities
- planning & Priority the activity visible contribute in group discussing in handle

My skills improved in this internship are

→ responsibility

→ adaptability

→ critical thinking skill

→ interpersonal skill

→ networking and multi tasking

This internship made me able to stand out and survive in today digital where few technical skill and manage it and vital

The internship has given me the ability understand the workplace culture and keeping up with the internship requirement

Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

The technological development in the field of cybersecurity relates works through a firewall system which mainly focus on the

- visibility and access control
- Data loss prevention
- Threat prevention

The technical development in the network are now taking initiative to build a next generation firewall with survival intravite technologies that enable organization to set the fire wall

The new technological development field network now doubt in the new autonomous security technology which in the security question center.

constant introduction of software and development in technologies are taking place mainly to strengthen the data base security privacy and point security and encryption

Student Self Evaluation of the Short-Term Internship

Student Name & Registration No: M,Sathish , 200768200024

Term of Internship: From 16/02/22 To 19/02/22

Date of Evaluation:

Organization Name & Address: Palo Alto Networks, Cyber Security
Andhra Pradesh

Name & Address of the Supervisor
with Mobile Number:

Please rate your performance in the following areas:

Rating Scale: Letter grade of CGPA calculation to be provided

1) Oral communication	1	2	3	4	5
2) Written communication	1	2	3	4	5
3) Initiative	1	2	3	4	5
4) Interaction with staff	1	2	3	4	5
5) Attitude	1	2	3	4	5
6) Dependability	1	2	3	4	5
7) Ability to learn	1	2	3	4	5
8) Planning and organization	1	2	3	4	5
9) Professionalism	1	2	3	4	5
10) Creativity	1	2	3	4	5
11) Quality of work	1	2	3	4	5
12) Productivity	1	2	3	4	5
13) Progress of learning	1	2	3	4	5
14) Adaptability to organization's culture/policies	1	2	3	4	5
15) OVERALL PERFORMANCE	1	2	3	4	5

Signature of the Student

M,Sathish

Evaluation by the Supervisor of the Intern Organisation

Student Name: & Registration No: M,Sathish & 200758200024

Term of Internship: From 10/10/22 To 19/11/22

Date of Evaluation:

Organization Name & Address: Palo Alto Cyber Security in Andhra Pradesh

Name & Address of the Supervisor
with Mobile Number:

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the Student's self-evaluation

Rating Scale: 1 is lowest and 5 is highest rank

1) Oral communication	1	2	3	4	5
2) Written communication	1	2	3	4	5
3) Initiative	1	2	3	4	5
4) Interaction with staff	1	2	3	4	5
5) Attitude	1	2	3	4	5
6) Dependability	1	2	3	4	5
7) Ability to learn	1	2	3	4	5
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9) Professionalism	1	2	3	4	5
10) Creativity	1	2	3	4	5
11) Quality of work	1	2	3	4	5
12) Productivity	1	2	3	4	5
13) Progress of learning	1	2	3	4	5
14) Adaptability to organization's culture/policies	1	2	3	4	5
15) OVERALL PERFORMANCE	1	2	3	4	5

S, Anil
Signature of the Supervisor

Evaluation by the Supervisor of the Intern Organisation

Student Name & Registration No:	M.Satish & 200758200024				
Term of Internship:	From 10/10/22	To 19/11/22			
Date of Evaluation:					
Organization Name & Address:	Palo Alto Cyber Security in Andhra Pradesh				
Name & Address of the Supervisor with Mobile Number:					

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the Student's self-evaluation

Rating Scale: 1 is lowest and 5 is highest rank

1) Oral communication	1	2	3	4	5
2) Written communication	1	2	3	4	5
3) Initiative	1	2	3	4	5
4) Interaction with staff	1	2	3	4	5
5) Attitude	1	2	3	4	5
6) Dependability	1	2	3	4	5
7) Ability to learn	1	2	3	4	5
8) Planning and organization	1	2	3	4	5
9) Professionalism	1	2	3	4	5
10) Creativity	1	2	3	4	5
11) Quality of work	1	2	3	4	5
12) Productivity	1	2	3	4	5
13) Progress of learning	1	2	3	4	5
14) Adaptability to organization's culture/policies	1	2	3	4	5
15) OVERALL PERFORMANCE	1	2	3	4	5

S.Anil
Signature of the Supervisor